

The logo for 3D-Radar, featuring the text "3D-Radar" in white. The "D" is stylized with three horizontal blue bars. The background is a dark, textured image of a road at night with light trails from a car's headlights.

Jacopo SALA
CEO | 3D-Radar AS

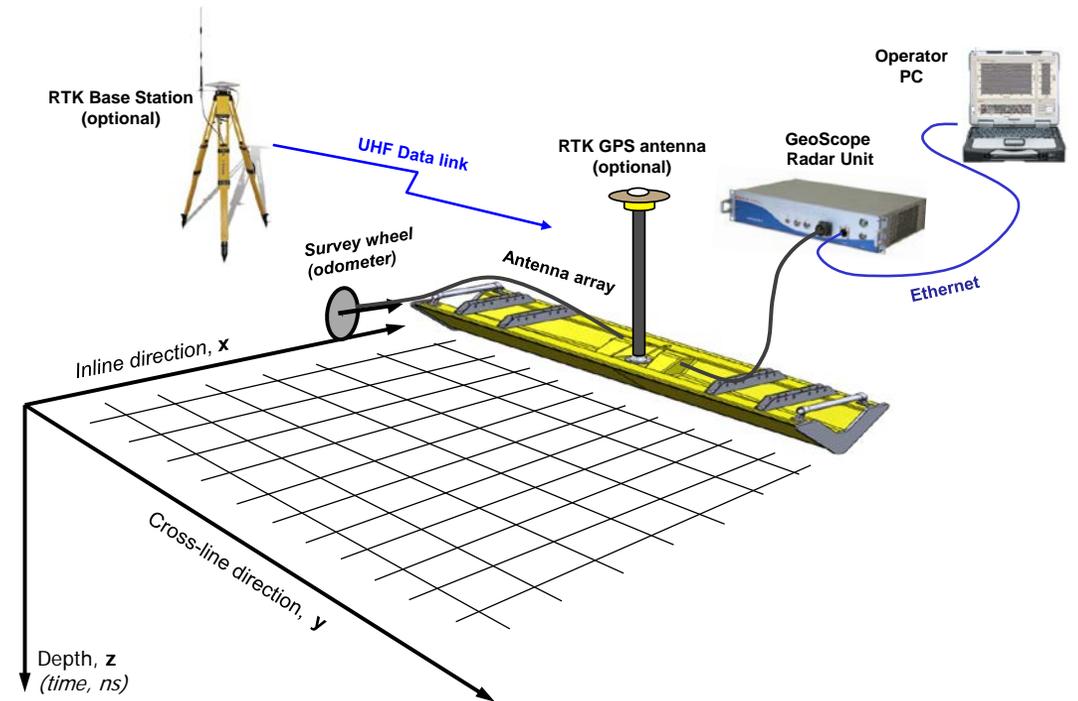
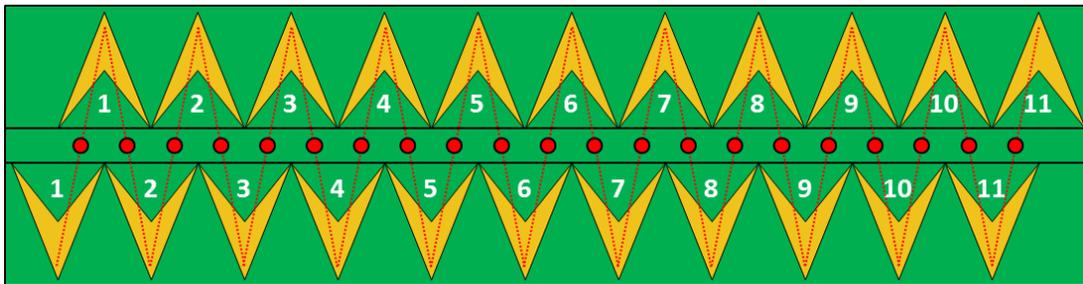
3D-Radar AS DPS User Group Meeting

Three thick, horizontal blue bars stacked vertically on the right side of the slide.

TRB 2020

Objectives

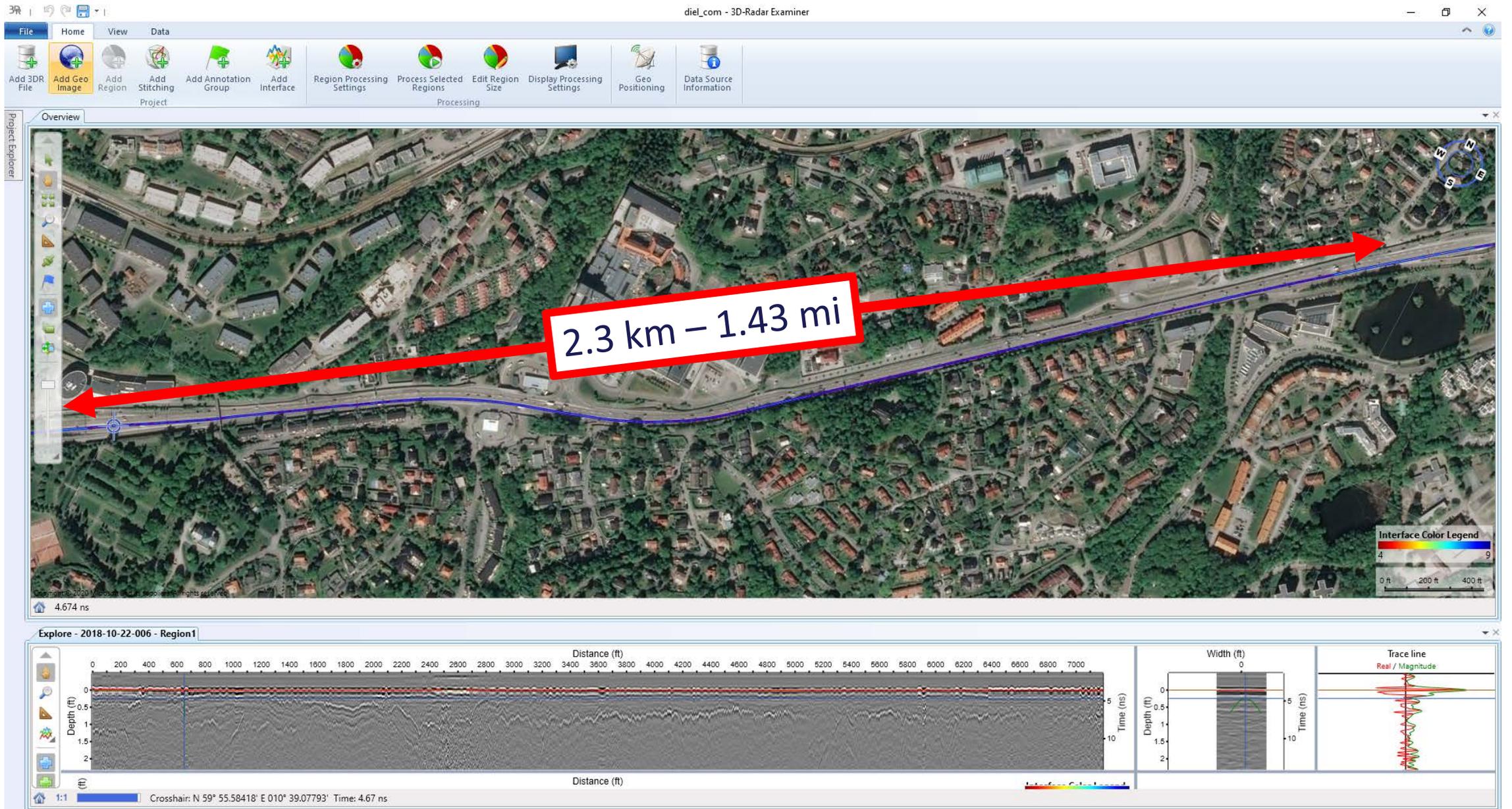
- Dielectric profiling available as part of standard system operation
- Network level surveys
- Full lane coverage
- Cross-line sampling \sim in-line sampling

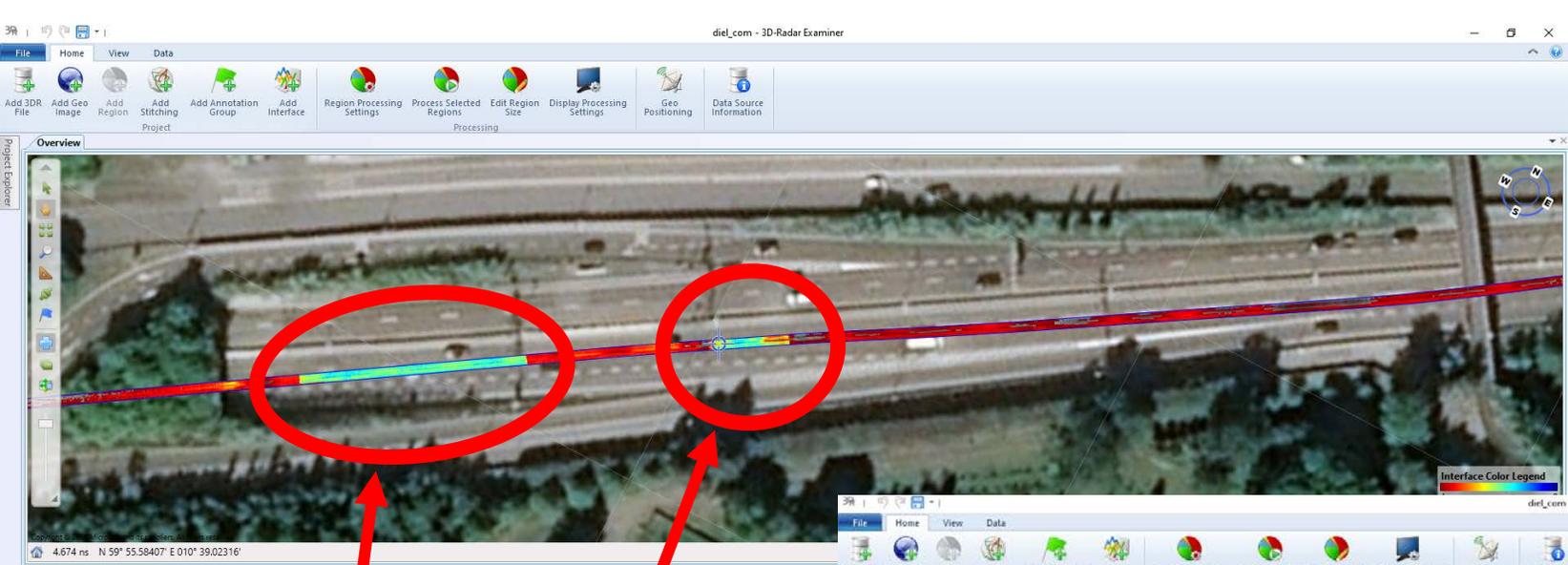


2019 activities

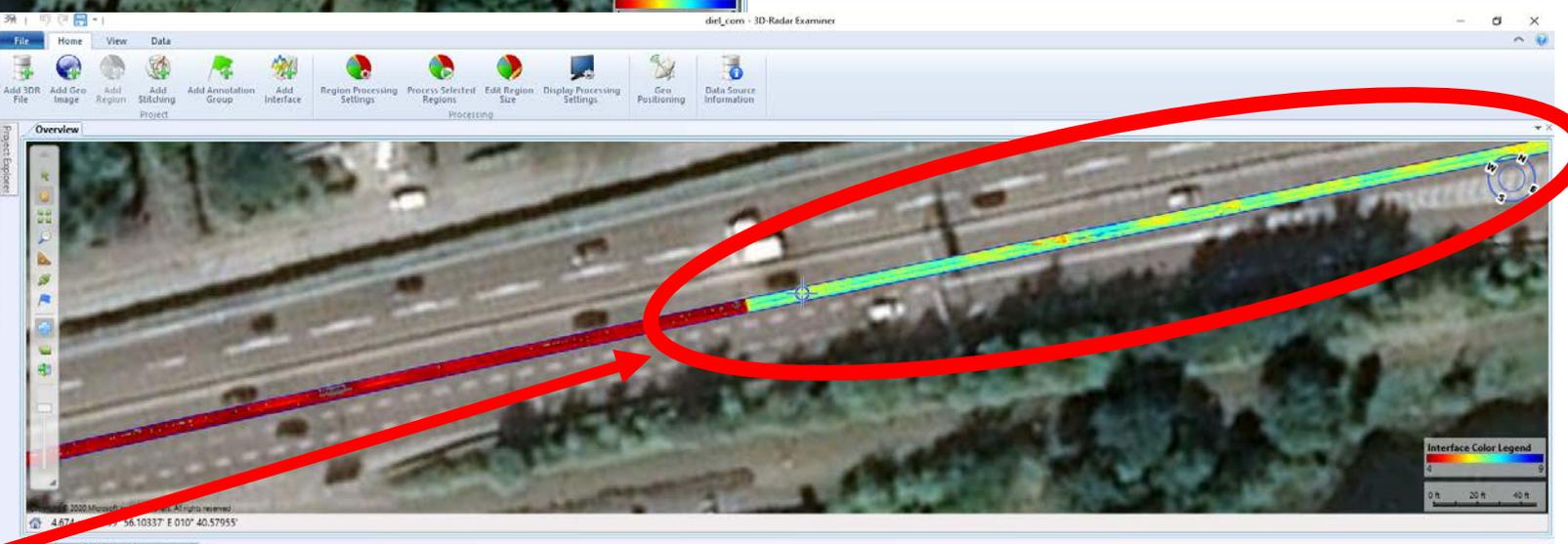
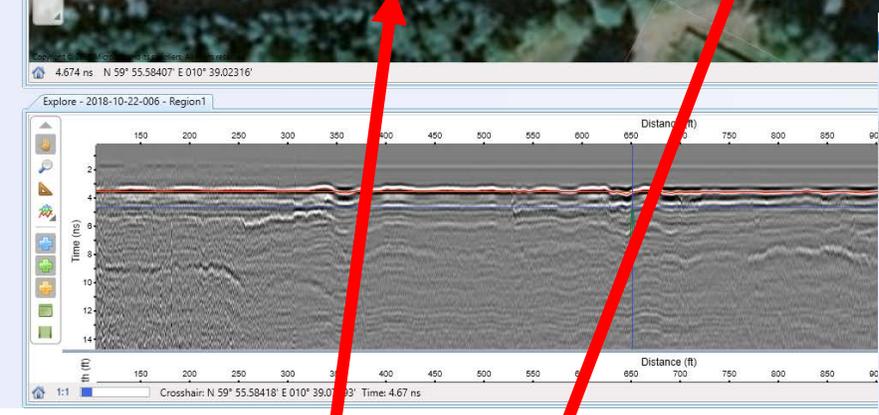
- Implemented prototype SW
 - Data calibration
 - Reflectivity analysis
 - Estimate of dielectric constant
- Tests on reference data sets
 - Calibration data
 - Survey data
 - Data processing



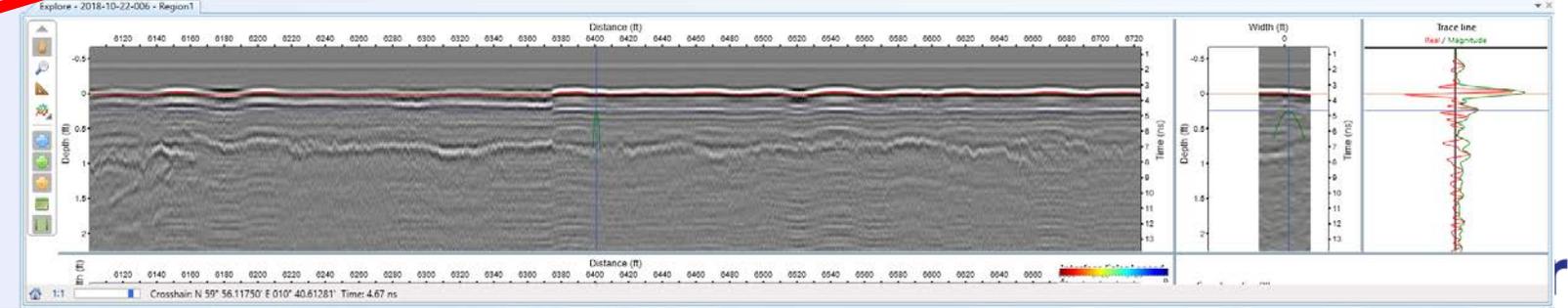




Variation in dielectric:
From avg. 5 (red) to
avg. 7.5 value (light green)

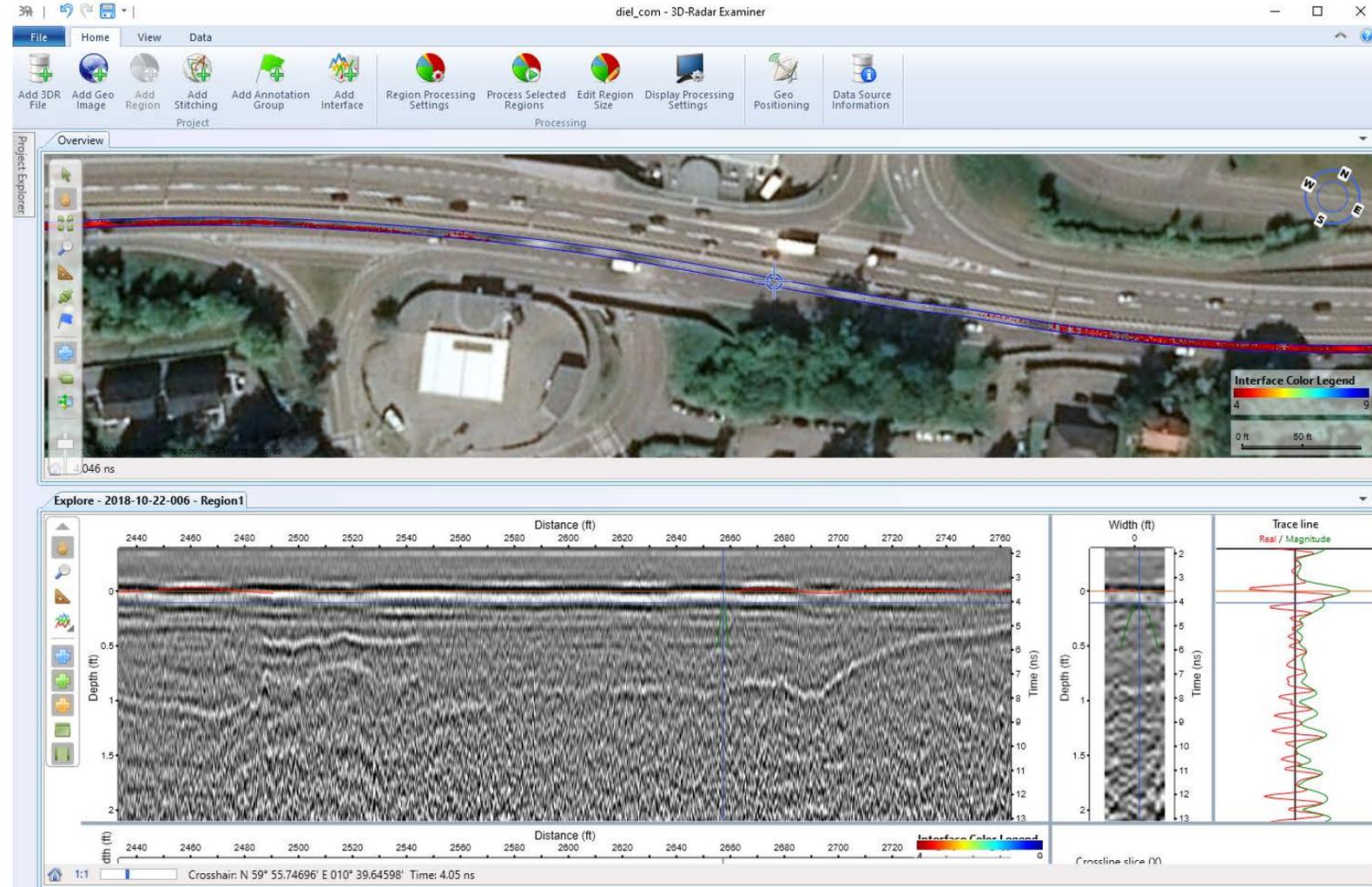


Changes in overlay



Challenges

- Mechanical aspects
 - Vehicle
 - Array mount
 - Bouncing
- Signal aspects
 - Electromagnetic interference
 - Use of calibration data



2020 activities forecast

- Test on more data sets
- Refine SW algorithms
- Standard for data collection
 - Calibration data
 - Survey data
- Implementation in commercial SW – 3D-Radar Examiner
 - Integration in pavement analysis toolbox



3D Radar

Thank you!



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www.3D-Radar.com